

ABSTRACT OF THE DISCLOSURE

Methods, compositions and kits are disclosed. The methods are directed to determining the presence of entactogen analytes such as, for example, 3,4-methylenedioxymphetamine (MDA), 3,4-methylenedioxymethamphetamine (MDMA), 3,4-methylenedioxymethylamphetamine (MDEA) and 4-hydroxy-3-methoxymethamphetamine (HMMA). The method comprises providing in combination in a medium (i) a sample suspected of containing the compound and (ii) an antibody raised against a compound of Formula I that comprises a protein. The medium is examined for the presence a complex comprising the compound and the antibody where the presence of such a complex indicates the presence of the compound in the sample. In one aspect of the above embodiment, the combination further comprises a label conjugate of the compound Formula I.

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